

1.6 User Manual



14+

4.5-CH 2.4G (PA) CONTROL WITH SIX AXIS GYRO

EXTREMELY HIGHER SPEED & THE BEST DISTANCE SOLUTION

(SPEED UP TO 4 METERS PER SECOND - THE DISTANCE OF 500 METERS)

PERFECT NIGHT GUIDING LIGHTS AND CAMERA FUNCTION

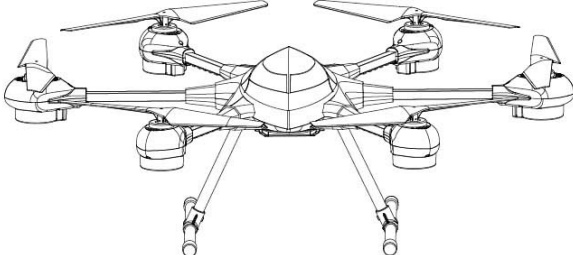
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SUPER ALLOY SIX AXIS DRONE

DRONE INSTRUCTION MANUAL PATHFINDER VERSION 2

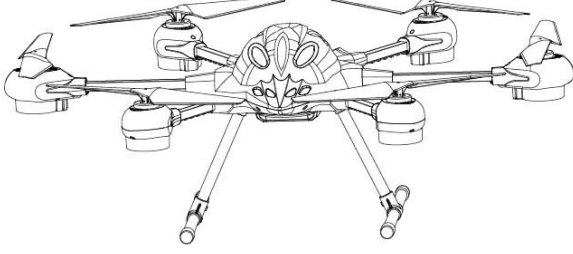
W609-7

HV



W609-8

HV



- *Intelligentized R/C system.* ▪ *Smooth hang performance.*
- *Newly designed electricity saving function.Safeguard battery model to prolong the uses life.*
- *Using four-motor drive, smooth flight, can easily finish all kinds of maneuvers.*
- *By using 6 axis gyro and attitude control integrated design,which can ensure the fine positioning in the air.*

Please read the instructions carefully before using.[Please read the notice in detail]Please keep the instructions for future reference.

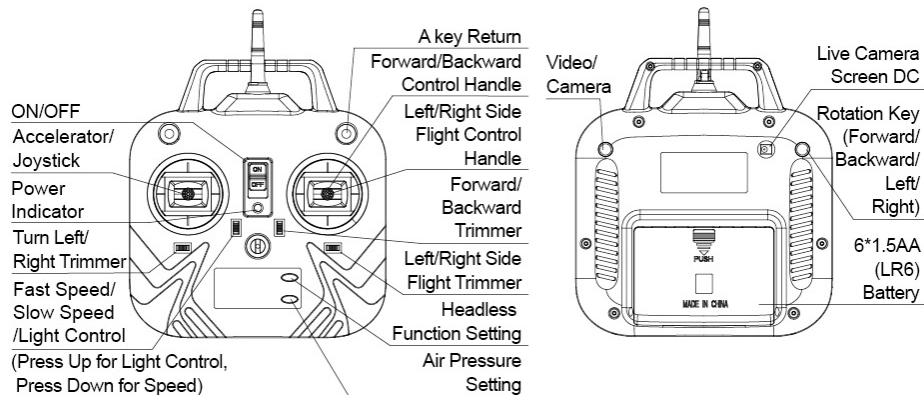
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R/C drone main technical index

W609-7/W609-8 2.4G main technical index

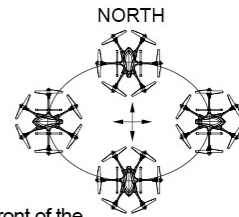
Drone: L:540MM × W:470MM× H:210MM
Fuselage weight: 520G
Flight area: 300-500Meters
Charging time: 180Minutes(more or less)
Flying time: about 7-9mins
Using Battery/Charger
1.Drone's battery(built-in): 7.4V/1500mAh Li-poly
2.Remote controller battery: 6x1.5"AA"(LR6)(Not included)

2.4G REMOTE CONTROLLER INSTRUCTION



SUPER HEADLESS MODE:

1. Drone Head: There are six blades on the drone. Divided into two colors. Two blades are same color. Another blades are same color. Two blades distinguish forward direction.
2. Headless Mode Definition: Set a direction for the drone. Such as the east direction is set forward direction, no matter which direction to the drone's head. In headless mode is to the east along the direction of flight. Backward is to the west direction of flight. This is the headless mode, this mode is to prevent the drone in the long-distance flight, the operator can not see clear drone head. To avoid drone lost.
3. Headless Mode Direction Setting: Connected the drone, place the drone in front of the remote controller. (Drone head toward the front direction, form a straight line with operator). Turn on the remote controller power switch, 2.4G signal on the frequency connection. Push the acceleration handle, record drone head corresponding direction. The direction is drone forward direction under headless mode. Note: Under headless mode, the drone can't do any rotation.
4. Entry & Exit Headless Mode: Press the remote controller "headless mode" button. The remote controller sends out the sound of DiDi twice, at the same time drone base LED lights into fast flash state. At this time, drone enter headless mode flight. As to exit the headless mode, press the remote controller "headless mode" button, the remote controller sends a beep sound. LED lights on the recovery of conventional drone flight state (LED lights constant bright).

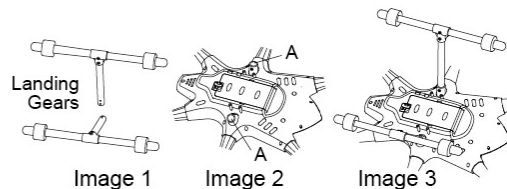


A KEY RETURN: In conventional flight mode (drone head straight ahead). As long as push the button, it will automatically fly back. (drone base lights flashing quickly) If you want to exit, push the button back.

ATMOSPHERIC PRESSURE (POSITION HOLDING): When the need to enter the atmospheric mode (Drone base lights appear slow flashing), press the position holding button. Drone will keep one height. (For example: The drone did not enter the position holding mode before, at a height of 10 meters. Once enter into the position holding mode, then the drone will hover in the 10 meters $\pm$ 0.7 meters) at this time, throttle lever no function, forward and backward, left and right side of fly, can control. If you want to exit the position holding mode, only need to press the button again. Pay attention to the position holding mode, drone can not do any rotation function, also, no return key function.

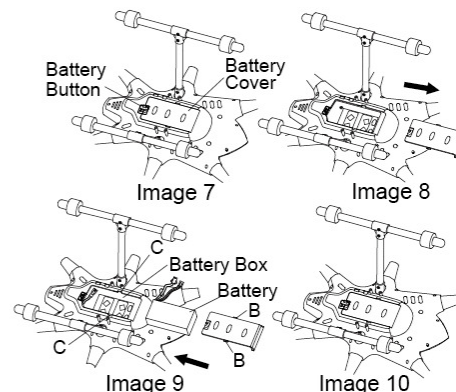
THE LANDING GEAR INSTALLATION INSTRUCTIONS:

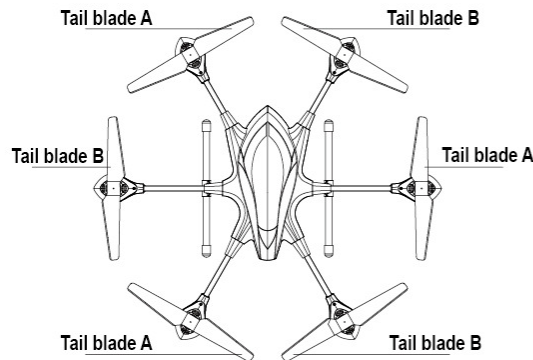
Landing gears (Image 1) install to support frame A (Image 2). Then screw them tightly. As shown in Image 3.



DRONE BATTERY INSTALLATION:

1. The battery button clockwise 90 degrees (Image 7). The battery to the direction of the arrow are gently pull the battery door, can be removed.
2. Connected the battery plug to the drone plug (Image 9). Put the battery cover (B) to the drone (C). Put the battery cover in direction of arrow nudge past. The battery button counterclockwise rotation of 90 degrees can be closed. (Image 10)

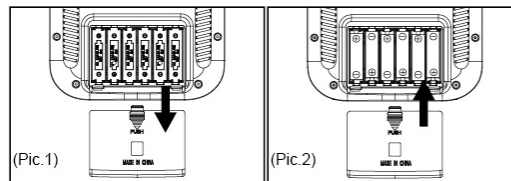




Tail Blade Exchange Matters:

1. Take out to replace the tail blade, according to the figure change corresponding to the tail blade. If change error, will not be able to control.
2. Tail blade A turn counterclockwise direction, Tail blade B turn clockwise direction.

Assembly R/C battery instruction



- ① Open the battery cover according to arrow direction. (Pic.1)
- ② According to the indication of pole on battery box, place 6×1.5" AA" (LR6) alkaline batteries into the box (battery to be purchased otherwise).
- ③ Fasten the cover of battery. (Pic.2)

Tips: When the power indicator of remote control twinkles, please replace battery as per the above steps.

Notes:

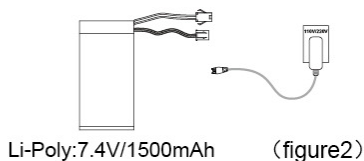
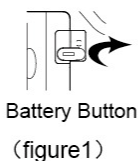
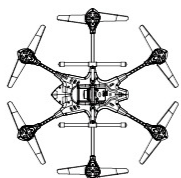
Recommended to install or replace the battery under the parental guidance.
 Avoid replace the battery only when the products weakened.
 Keep the instruction for future reference.
 Use this product in strict accordance with the instructions.
 In a static environment, the product may cause malfunction.
 Recommended to use new batteries to play the best features.

Warning:

1. Non-rechargeable battery can not be charged.
2. Rechargeable battery can only be charged under the supervision of adults.
3. Rechargeable battery shall be taken out from the tool before charging. (only applicable for remote controller)
4. Batteries with different types or new and used batteries can not be used together.
5. Only same or suggested batteries can be used.
6. Install battery with correct polarity.
7. Take exhausted battery out of the tool.
8. Avoid short circuit at terminals of battery.
9. Before charging, check if the charger is damaged; and if it is damaged, please use it after repair all damages.
10. Do not contact the rotating propeller directly with hand, or it may cause injury.
11. When playing flying tool, please keep your hair and loose clothes away from the propeller.
12. Please check the wire, plug, shell and other parts of charger periodically, and if there is any damage, stop using it till it is repaired.

Battery charging using instructions

1. When playing the drone, please connect the drone's power with two wires (positive and negative pole) to the battery with two wires (positive and negative pole). (figure 1).
2. When charging, please unplug the two wires (positive and negative pole) plug at first, then connect the drone's three wires plug to the charger. (figure 2). Remarks: Red LED is lighting up while charging. After charging completely, then the LED extinguish to green. The charging time is about 180 mins.



Notes:

1. Before charging, the drone shall be stopped for 10-15 minutes to ensure the inbuilt Li-poly battery is cooling completely.
2. Before continuous flight, the drone shall be stopped for 10-15 minutes to ensure the inbuilt motor is cooling completely.

Warning on Li-poly battery:

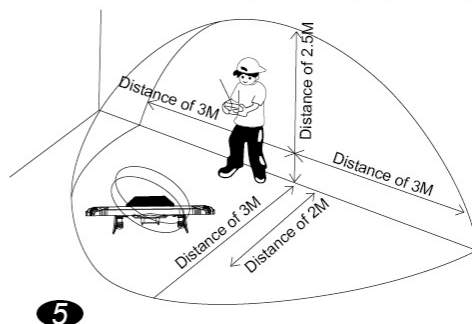
1. Do not put the battery into fire or heat source.
2. Keep the battery away from heat source, and do not use it by the side of heat source.
3. Do not place the battery on the surface of hot matter.
4. Do not soak the battery in water and keep it in a dry and low-temperature environment.
5. Only the charger specified for the product can be used for charging the battery.
6. Do not over-charge the battery.
7. Do not connect the battery with other circuit.
8. Do not fix battery with bolt or any sharp matter.
9. Do not place the battery together with metal parts or jewelry.
10. Do not disassemble the battery.
11. Charge the battery at least once per six months.
12. Turn off the power of product immediately after using.
13. After use the battery, please use PE bags to wrap or use insulation sheet to isolation battery positive and negative.

Environment for flight

1. Fly on a sunny day, without wind.
- ① Do not fly in extreme temperature. Do not fly in temperature above 113 degrees Fahrenheit/45 degrees centigrade, or below 50 degrees Fahrenheit/10 degrees centigrade. Flying in extreme heat and/of cold will affect performance and may damage the model.
- ② Do not fly in strong wind. Windy conditions will limit, or disturb the flying control. In very windy conditions, your drone may become lost and/or damaged.
2. Select large, wide-open area for flying, and make sure there is no obstacles, animals or people nearby.

NOTICE

When we move the acceleration handle upward, then downward to the bottom. If the red indicator keeps to flash, it shows the battery has no enough power. You should replace with new batteries.



Safety Warning:

To parents: this product is only applicable for children over 14 years old. For your children's safety during playing, please read this Instructions together with your children firstly. Do not pick up moving tool to avoid injury. When turn on the power of tool, please keep hair and clothes away from it. (Any modification to the product without authorization will damage your rights on the product)

Warning: It contains small parts and it is not applicable for children under 14 years old.

NOTE: 2.4G Frequency For Instructions

1. Put the power into the drone slot, open the drone power switch and placed on level ground smoothly, and then open the remote controller switch. The remote controller indicator light will flash frequency for the state. After the frequency of state succeed, the controller's indicator light will be bright. The drone head lights will be bright after flashing 2-3 times and the back lights will flash all the time. At this time, you can control the drone fly.
2. Gyroscope Connection : Insert the power wire into the drone slot. And stably placed at ground. Turn on the remote controller power switch. The acceleration handle up and down. Then the acceleration handle and direction pull in the lower right corner. Drone lights will flash before constant light. At the same time, release handle, illustrated manual successfully (Gyroscope have been connected before shipping. No need to connect again.)
3. When the drone is flying beyond the remote control distance, and is out of control state (drone lights flashing), As long as the drone is in the receiving signal, then refuels the throttle, the drone can fly again.

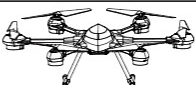
Operating Method

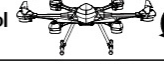
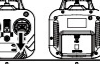
Control Notes:

When push the controller's handle, couldn't push too much force to the end, you can adjust slowly, when you push the handle and had the feeling to feel the change of the flight trajectory. For beginners (after finish trimmer procedures), the most important point is need to be familiar with the control of handle. Drone maybe turn around by itself, but it doesn't matter. At first, we need learning how to control the left handle to let the drone keep the distance from the ground about 1M for suspension flight highly. Then, try to master the direction of flight control tips. For beginners, we suggest to keep marching slowly training tips, familiar with can master until after the try to fast forward.

Operating Notes:

Don't paste on the drone or bound to any item, to avoid affect the drone's balance or overweight can't afford to fly.

Ascend	When you push upward of the left handle, the main blades speed increases, the drone ascends.		
Descend	When push downward of the left handle, the main blades speed slow down, the drone descends.		
Change direction	When push the left handle to left, the drone's head turn to left. When push the left handle to right, the drone's head turn to right.		
Forward	When push upward of the right handle, the drone's head down and moving forward.		
Backward	When push downward of the right handle, the drone's head up and moving backward.		

side to side fly	When the right operating rod is pushed towards to left,the left side of drone down and forward. When the right operating rod is pushed towards to right,the right side of drone down and forward.		
Forward tumbling key	When the drone stop spinning in the air,press the key button on the left side back of the controller,then control the forward handle,it will turn forward 360 degrees.		
Backward tumbling key	When the drone stop spinning in the air,press the key button on the left side back of the controller,then control the backward handle,it will turn backward 360 degrees.		
Left tumbling key	When the drone stop spinning in the air,press the key button on the left side back of the controller,then control the left side fly handle,it will turn left side 360 degrees.		
Right tumbling key	When the drone stop spinning in the air,press the key button on the left side back of the controller,then control the right side fly handle,it will turn right side 360 degrees.		

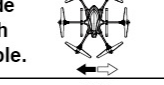
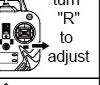
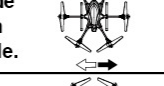
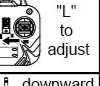
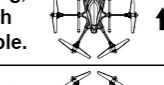
NOTICE

- When the drone falling down,please push down the throttle lever to the button quickly.
- Don't paste label or paper on the drone,it may make drone too weight to fly.
- Before implementing different direction rolling demo, you must first click the remote control on the upper left corner of the front / back / left / right tumbling bond.

Special prompt

1.Trimmer adjust the description

If not to push the derrection handle when flying,drone still spinning,you can press the Fine-tuning switch key to adjust controller trimmer,until drone fly stable and does not spin.

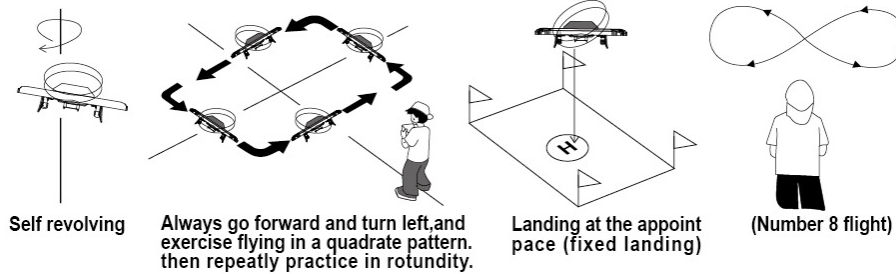
When the drone stop spinning,it's head counterclockwise spin,continuous pressing the left fine-tuning switch, press the "R"direction until the drone fly stable.		turn right to adjust 
When the drone stop spinning,it's head clockwise spin, continuous pressing the left fine-tuning switch, press the "L"direction until the drone fly stable.		turn left to adjust 
When the drone stop spinning,you want to move the left side flying, can continuous pressing the side fly fine-tuning switch from right, press the "R"direction until the drone fly stable.		turn "R" to adjust 
When the drone stop spinning,you want to move the right side flying,can continuous pressing the side fly fine-tuning switch from right, press the "L"direction until the drone fly stable.		turn "L" to adjust 
When the drone stop spinning,you want to move forward flying, can continuous pressing forward/backward fine-tuning switch from right, press upward direction until the drone fly stable.		downward to adjust 
When the drone stop spinning,you want to move backward flying, can continuous pressing forward/backward fine-tuning switch from right, press backward direction until the drone fly stable.		upward to adjust 

NOTICE

When the drone is about 30cm from the ground,drone will be affected by their own blades vortex and become unstable,it is called the ground effect reaction.When the drone's weight more and more lighter,the ground effect reaction influence will be greater.

Flying Practice

After enough practice, you can attempt the following flying operation.



Warning:

1. Please do not touch the high-speed rotating propeller;
2. When playing the drone, please keep the drone 2 meters safe distance with other people
3. Be guided by adults when operating.

Troubleshooting

PROBLEM	CAUSE	SOLVE
Controller does not work	1.Controller's power switch is "OFF".	1.Turn power switch "ON".
	2.Insert batteries into controller improperly.	2.Check and make sure the battery is in accordance with the instructions of the positive and the negative pole in the battery box.
	3.Batteries lack of power.	3.Change new batteries instead.
Can not control the drone	1.You haven't operated the controller.	1.Turn controller power switch "ON".
	2.Haven't turned on controllers power switch.	2.Turn drone's power switch "ON".
	3.You play the drone in strong winds weather.	3.Do not play the drone in winds, which can confuse your control.
drone can not rise	1.Main rotor blades rotate too slowly.	1.Pull up the acceleration stick.
	2.Doesn't fully charge drone battery.	2.Full charge drone battery, (See instruction above).
drone landing too fast	You loose the acceleration stick or pull it too fast.	Slowly pull down the acceleration stick till the drone lands smoothly.

NOTICE:

1. When the drone or controller is lack of power, remote control distance would be affected and become shorter.
2. If the power of drone is low, there will be can't fly high or difficult to take-off.
3. If the drone appeared to breakage, deformation, please repair it timely, serious situation it will case such as blades fracture, broken, at this time, couldn't make drone fly, otherwise it will cause injury.
4. Please pull out the power plug if you don't play the drone for a long time, that can avoid battery leakage caused by damage to this product.
5. Don't make drone flight crash or serious collision, it will damage the drone or shorten its lifetime.
6. Model drone with a variety of alloy components, when kids play drone should be careful, avoid to be cutted by alloy pieces.

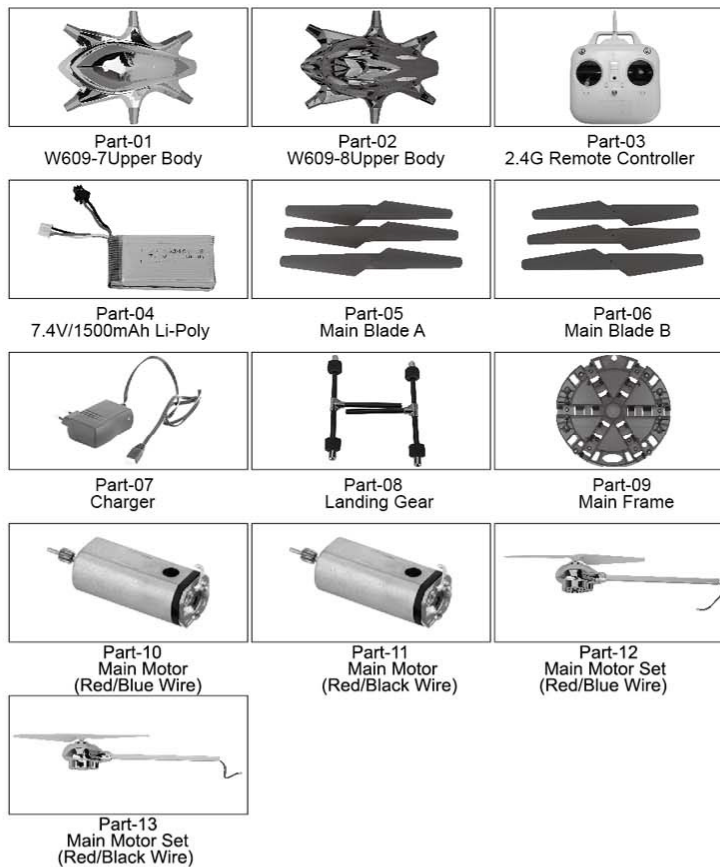
Warning: Do not stab any sharp matter such as needle or snail into the body of drone; it may damage the inbuilt lithium battery.

Maintenance & Repair:

If the product is not used for a long time, the battery shall be taken out; use clean and soft cloth to clean the product.

Avoid insulating or heating the tool under sunshine; do not soak it in water, as the parts of it may be damaged.

Attention: Pictures refer to the actual product.

PARTS

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.